

CLAIM LISTING:

The following is a listing of the currently pending claims.

1. (Original) A platform for processing a partitioned network infrastructure application, comprising:
first processing means for processing an application processor (AP) module; and
second processing means for processing a policy engine (PE) module, wherein the PE module includes a plurality of action and classification engines (ACEs), the plurality of ACEs including two or more instances of a particular ACE.
2. (Original) The platform of claim 1 wherein the plurality of ACEs includes instances of two or more different ACEs.
3. (Original) The platform of claim 1 further including messaging means for supporting communication between the AP module and the PE module.
4. (Original) The platform of claim 1 wherein the plurality of ACEs are processed serially.
5. (Original) The platform of claim 1 wherein at least one of the plurality of ACEs includes a user-definable action component.
6. (Original) The platform of claim 5 wherein the user-definable action component is definable using a general purpose programming language.
7. (Original) The platform of claim 1 wherein the second processing means is implemented in hardware.
8. (Original) The platform of claim 1 wherein the second processing means is

implemented in software.

9. (Original) The platform of claim 1 wherein the PE module and the AP module are processed on a same physical resource.

10. (Original) The platform of claim 1 wherein at least one of the plurality of ACEs further includes a frame classification rule.

11. (Original) The platform of claim 10 wherein the at least one ACE further includes an action associated with the frame classification.

12. (Original) The platform of claim 1 wherein at least one of the plurality of ACEs further includes a target, the target representing a packet destination for a classified frame.

13. (Original) The platform of claim 1 wherein at least one of the plurality of ACEs further includes a plurality of targets, the plurality of targets representing two or more destinations for a classified frame.

14. (Original) The platform of claim 1 wherein at least one of the plurality of ACEs further includes a context for upcalls between the AP and PE modules.

15. (Original) The platform of claim 1 wherein at least one of the plurality of ACEs further includes a context for downcalls between the AP and PE modules.

16. (Original) The platform of claim 1 wherein at least one of the plurality of ACEs performs demux operations.

17. (Original) The platform of claim 1 wherein at least one of the plurality of ACEs sends a frame to a plurality of downstream ACEs.

18. (Original) An apparatus to process a partitioned network infrastructure application, comprising:
a first facility to process an application processor (AP) module; and
a second facility to process a policy engine (PE) module, wherein the PE module includes a plurality of action and classification engines (ACEs), the plurality of ACEs including two or more instances of a particular ACE.

19. (Original) The apparatus of claim 18 wherein the plurality of ACEs includes instances of two or more different ACEs.

20. (Original) The apparatus of claim 18 further including a messaging facility to support communication between the AP module and the PE module.

21. (Original) The apparatus of claim 18 wherein the plurality of ACEs are processed serially.

22. (Original) The apparatus of claim 18 wherein at least one of the plurality of ACEs includes a user-definable action component.

23. (Original) The apparatus of claim 22 wherein the user-definable action component is definable using a general purpose programming language.

24. (Original) The apparatus of claim 18 wherein the second facility is implemented in hardware.

25. (Original) The apparatus of claim 18 wherein the second facility is implemented in software.

26. (Original) The apparatus of claim 18 wherein the PE module and the AP module are processed on a same physical resource.

27. (Original) The apparatus of claim 18 wherein at least one of the plurality of ACEs further includes a frame classification rule.

28. (Original) The apparatus of claim 27 wherein the at least one ACE further includes an action associated with the frame classification.

29. (Original) The apparatus of claim 18 wherein at least one of the plurality of ACEs further includes a target, the target representing a packet destination for a classified frame.

30. (Original) The apparatus of claim 18 wherein at least one of the plurality of ACEs further includes a plurality of targets, the plurality of targets representing two or more destinations for a classified frame.

31. (Original) The apparatus of claim 18 wherein at least one of the plurality of ACEs further includes a context for upcalls between the AP and PE modules.

32. (Original) The apparatus of claim 18 wherein at least one of the plurality of ACEs further includes a context for downcalls between the AP and PE modules.

33. (Original) The apparatus of claim 18 wherein at least one of the plurality of ACEs performs demux operations.

34. (Original) The apparatus of claim 18 wherein at least one of the plurality of ACEs sends a frame to a plurality of downstream ACEs.

35. (Original) A method of partitioning a network infrastructure application, the method comprising:

providing an application processor (AP) module; and

providing a policy engine (PE) module, wherein the PE module includes a plurality of action and classification engines (ACEs), the plurality of ACEs including two

or more instances of a particular ACE.

36. (Original) The method of claim 35 wherein the plurality of ACEs includes instances of two or more different ACEs.

37. (Original) The method of claim 35 further including providing a messaging facility to support communication between the AP module and the PE module.

38. (Original) The method of claim 35 wherein the plurality of ACEs are processed serially.

39. (Original) The method of claim 35 wherein at least one of the plurality of ACEs includes a user-definable action component.

40. (Original) The method of claim 35 wherein the user-definable action component is definable using a general purpose programming language.

41. (Original) The method of claim 35 wherein the providing of the PE module is implemented through hardware.

42. (Original) The method of claim 35 wherein the providing of the PE module is implemented through software.

43. (Original) The method of claim 35 wherein the PE module and the AP module are processed on a same physical resource.

44. (Original) The method of claim 35 wherein at least one of the plurality of ACEs further includes a frame classification rule.

45. (Original) The method of claim 44 wherein the at least one ACE further includes an action associated with the frame classification.

46. (Original) The method of claim 35 wherein at least one of the plurality of ACEs further includes a target, the target representing a packet destination for a classified frame.

47. (Original) The method of claim 35 wherein at least one of the plurality of ACEs further includes a plurality of targets, the plurality of targets representing two or more destinations for a classified frame.

48. (Original) The method of claim 35 wherein at least one of the plurality of ACEs further includes a context for upcalls between the AP and PE modules.

49. (Original) The method of claim 35 wherein at least one of the plurality of ACEs further includes a context for downcalls between the AP and PE modules.

50. (Original) The method of claim 35 wherein at least one of the plurality of ACEs performs demux operations.

51. (Original) The method of claim 35 wherein at least one of the plurality of ACEs sends a frame to a plurality of downstream ACEs.